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21 [Data mining and the Web: past, present and future](#)

Minos N. Garofalakis, Rajeev Rastogi, S. Seshadri, Kyuseok Shim
 November 1999 WIDM '99: Proceedings of the 2nd international workshop on Web
 information and data management

Publisher: ACM

Full text available: [pdf\(660.55](#)
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Bibliometrics: Downloads (6 Weeks): 12, Downloads (12 Months): 213, Citation Count: 12

22 Predicate rewriting for translating Boolean queries in a heterogeneous information system



Chen-Chuan K. Chang, Héctor Garcia-Molina, Andreas Paepcke

January 1999 ACM Transactions on Information Systems (TOIS), Volume 17 Issue 1

Publisher: ACM

Full text available: [pdf\(350.96 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 1, Downloads (12 Months): 40, Citation Count: 5

Searching over heterogeneous information sources is difficult in part because of the nonuniform query languages. Our approach is to allow users to compose Boolean queries in one rich front-end language. For each user query and target source, we transform ...

Keywords: Boolean queries, content-based retrieval, filtering, predicate rewriting, query subsumption, query translation

23 Model-driven development of Web applications: the AutoWeb system



Piero Fraternali, Paolo Paolini

October 2000 ACM Transactions on Information Systems (TOIS), Volume 18 Issue 4

Publisher: ACM

Full text available: [pdf\(6.94 MB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 46, Downloads (12 Months): 493, Citation Count: 21

This paper describes a methodology for the development of WWW applications and a tool environment specifically tailored for the methodology. The methodology and the development environment are based upon models and techniques already used in the hypermedia, ...

Keywords: HTML, WWW, application, development, intranet, modeling

24 Coordinating heterogeneous time-based media between independent applications



Scott Flinn

January 1995 MULTIMEDIA '95: Proceedings of the third ACM international conference on Multimedia

Publisher: ACM

Full text available: [html\(53.68 KB\)](#)

Additional Information: [full citation](#), [references](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 1, Downloads (12 Months): 9, Citation Count: 0

Keywords: auditory display, distributed systems, media integration and synchronization, operating system support, real-time scheduling, system architecture


25 [Future of database systems: changing applications and technological developments](#)



M. Tamer Özsu

December 1996 ACM Computing Surveys (CSUR), Volume 28 Issue 4es

Publisher: ACM

Full text available:  [html\(18.91 KB\)](#)

Additional Information: [full citation](#), [references](#)

Bibliometrics: Downloads (6 Weeks): 3, Downloads (12 Months): 75, Citation Count: 0


26 [XML-based information mediation for digital libraries](#)



Chaitanya Baru, Vincent Chu, Amarnath Gupta, Bertram Ludäscher, Richard Marciano, Yannis Papakonstantinou, Pavel Velikhov

August 1999 DL '99: Proceedings of the fourth ACM conference on Digital libraries

Publisher: ACM

Full text available:  [pdf\(41.01 KB\)](#)

Additional Information: [full citation](#), [references](#), [cited by](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 4, Downloads (12 Months): 24, Citation Count: 4


27 [Unifying heterogeneous information models](#)



Narinder Singh

May 1998 Communications of the ACM, Volume 41 Issue 5

Publisher: ACM

Full text available:  [pdf\(336.15 KB\)](#)

Additional Information: [full citation](#), [references](#), [cited by](#), [index terms](#), [review](#)

Bibliometrics: Downloads (6 Weeks): 0, Downloads (12 Months): 37, Citation Count: 8

28 [Programming by example: programming by demonstration for information agents](#)



Mathias Bauer, Dietmar Dengler, Gabriele Paul, Markus Meyer
March Communications of the ACM, Volume 43 Issue 3
2000

Publisher: ACM

Additional Information: [full citation](#), [appendices](#)

Full text available: [pdf\(391.87 KB\)](#) [html\(27.47 KB\)](#)

[and supplements](#),
[references](#), [cited by](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 7, Downloads (12 Months): 103, Citation Count: 1

29 [An XJML-based wrapper generator for Web information extraction](#)



Ling Liu, Wei Han, David Buttler, Calton Pu, Wei Tang
June 1999 ACM SIGMOD Record, Volume 28 Issue 2

Publisher: ACM

Full text available: [pdf\(511.63 KB\)](#)

Additional Information: [full citation](#), [references](#), [cited by](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 5, Downloads (12 Months): 50, Citation Count: 4

30 [An XJML-based wrapper generator for Web information extraction](#)



Ling Liu, Wei Han, David Buttler, Calton Pu, Wei Tang
June SIGMOD '99: Proceedings of the 1999 ACM SIGMOD international conference
1999 on Management of data

Publisher: ACM

Full text available: [pdf\(511.63 KB\)](#)

Additional Information: [full citation](#), [references](#), [cited by](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 5, Downloads (12 Months): 50, Citation Count: 4

31 [Declarative specification of Web sites with S](#)

Mary Fernández, Daniela Florescu, Alon Levy, Dan Suciu
March The VLDB Journal — The International Journal on Very Large Data
2000 Bases, Volume 9 Issue 1

Publisher: Springer-Verlag New York, Inc.

Full text available: [pdf\(188.65 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#),
[index terms](#)

Bibliometrics: Downloads (6 Weeks): 4, Downloads (12 Months): 33, Citation Count: 22

S is a system for implementing *data-intensive* Web sites, which typically integrate information from multiple data sources and have complex structure. S's key idea is separating the management of a Web site's data, the specification of its content ...


Keyw ords: Declarative query languages, Web-site management

32 Integrating geographic information systems, spatial digital libraries and information spaces for conducting humanitarian assistance and disaster relief operations in urban environments



Vished Kumar, Alejandro Bugacov, Murilo Coutinho, Robert Neches
November 1999 GIS '99: Proceedings of the 7th ACM international symposium on Advances in geographic information systems

Publisher: ACM

Full text available:  pdf(950.37 KB)

Additional Information: [full citation](#), [references](#), [cited by](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 6, Downloads (12 Months): 66, Citation Count: 2

Keyw ords: collaboration, digital libraries, disaster relief operations, geographic information systems, information spaces, visualization

33 Towards the digital government of the 21st century: a report from the workshop on research and development opportunities in federal information services

Herbert Schorr, Salvatore J. Stolfo
May 2000 dg.o '00: Proceedings of the 2000 annual national conference on Digital government research

Publisher: Digital Government Research Center

Full text available:  pdf(339.17 KB)

Additional Information: [full citation](#), [abstract](#)

Bibliometrics: Downloads (6 Weeks): 15, Downloads (12 Months): 93, Citation Count: 0

A partnership between Government agencies and the information technologies research community has succeeded in the past for the benefit of the Nation. The most notable example is the emergence of the Internet as the basis for broad scientific, cultural, ...

34 MOCHA: a self-extensible database middleware system for distributed data



sources

Manuel Rodríguez-Martínez, Nick Roussopoulos
June ACM SIGMOD Record, Volume 29 Issue 2
2000

Publisher: ACM

Full text available: [pdf\(278.77 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 7, Downloads (12 Months): 84, Citation Count: 13

We present MOCHA, a new self-extensible database middleware system designed to interconnect distributed data sources. MOCHA is designed to scale to large environments and is based on the idea that some of the user-defined functionality in the system ...

35 Parallelizing OODBMS traversals: a performance evaluation

David J. De Witt, Jeffrey F. Naughton, John C. Shafer, Shivakumar Venkataraman
January The VLDB Journal — The International Journal on Very Large Data
1996 Bases, Volume 5 Issue 1

Publisher: Springer-Verlag New York, Inc.

Full text available: [pdf\(151.09 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 2, Downloads (12 Months): 13, Citation Count: 2

In this paper we describe the design and implementation of *ParSets*, a means of exploiting parallelism in the SHORE OODBMS. We used ParSets to parallelize the graph traversal portion of the OO7 OODBMS benchmark, and present speedup and scaleup ...

Key words: ParSets - Parallelism - SHORE - Object-oriented database management systems

36 A survey of structured and object-oriented software specification methods and techniques



Roel Wieringa
December ACM Computing Surveys (CSUR), Volume 30 Issue 4
1998

Publisher: ACM

Full text available: [pdf\(605.26 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#), [review](#)

Bibliometrics: Downloads (6 Weeks): 52, Downloads (12 Months): 616, Citation Count: 11

This article surveys techniques used in structured and object-oriented software specification methods. The techniques are classified as techniques for the specification of external interaction and internal decomposition. The external specification techniques ...

Keywords: languages

37 [An efficient plan execution system for information management agents](#)



Greg Barish, Dan DiPasquo, Craig A. Knoblock, Steven Minton

November 1999 WIDM '99: Proceedings of the 2nd international workshop on Web information and data management

Publisher: ACM

Full text available: [pdf\(953.69 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 3, Downloads (12 Months): 20, Citation Count: 0

Recent work on information integration has yielded novel and efficient solutions for gathering data from the World Wide Web. However, there has been little attention given to the problem of providing information management capabilities that closely model ...

38 [The World-Wide Web: quagmire or gold mine?](#)



Oren Etzioni

November 1996 Communications of the ACM, Volume 39 Issue 11

Publisher: ACM

Full text available: [pdf\(238.92 KB\)](#)

Additional Information: [full citation](#), [references](#), [cited by](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 10, Downloads (12 Months): 74, Citation Count: 37

39 [Prototype for wrapping and visualizing geo-referenced data in a distributed environment using XML technology](#)



Jianting Zhang, Muhammad Javed, Amir Shaheen, Le Gruenwald

November 2000 GIS '00: Proceedings of the 8th ACM international symposium on Advances in geographic information systems

Publisher: ACM

Full text available: [pdf\(618.21 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 5, Downloads (12 Months): 50, Citation Count: 2

This paper proposes a prototype for integration and visualization of geo-referenced information (GRI) in a distributed environment in general and World Wide Web in particular. This prototype adopts a three-tier architecture and includes three main components: ...

Keywords: XML, geo-referenced information, integration, visualization


40 Open GIS and on-line environmental libraries



Kenn Gardels

March 1997 ACM SIGMOD Record, Volume 26 Issue 1

Publisher: ACM

Full text available:  [pdf\(40.02 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 6, Downloads (12 Months): 89, Citation Count: 2

An essential component of an Environmental Information System is geographic or geospatial data coupled with geoprocessing functions. Traditional Geographic Information Systems (GIS) do not address the requirements of complex digital environmental libraries, ...

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